

ILLINOIS

WEATHER & CROPS



ILLINOIS COOPERATIVE CROP REPORTING SERVICE

Illinois Department of Agriculture
STATISTICAL REPORTING SERVICE USDA
Box 429 Springfield, Illinois 62705
Phone: (217) 492-4295

CONTRIBUTORS:

National Weather Serv. Forecast Office (Chicago)
Midwest Agr. Weather Serv. Ctr. (W. Lafayette, Ind.)
Illinois State Water Survey Div., DENR (Champaign)

RELEASED: AUGUST 9, 1982, 3 P.M., CDT

VOL. 3, NO. 21

CROP HI-LITES

*** Corn - 70% dough, 24% dented
*** Soybeans - 89% blooming, 62% setting pods
*** Soil Moisture - 38% short
57% adequate
5% surplus

CORN condition on Friday, August 6, was reported as 47% excellent, 51% good and 2% fair. Seventy percent of the corn crop was in the dough stage on Sunday, August 8, compared to 57% last year and the 5-year average (1977-81) of 60%. Twenty-four percent of the crop is dented compared to 18% last year and an average of 20%.

SOYBEANS on August 6 were reported as 24% in excellent condition, 67% good and 9% fair. Eighty-nine percent of the soybeans were blooming on August 8 compared to 83% last year and an average of 88%. Sixty-two percent of the crop was setting pods compared to 50% last year and an average of 60%.

The **OATS** crop on August 8 was 90% combined compared to 95% last year and an average of 91%.

ALFALFA HAY was reported as 24% excellent, 70% good and 6% fair on August 6. About 17% of the third crop was cut by August 8 compared to 29% last year and an average of 28%.

PASTURES on August 6 were reported as 25% excellent, 60% good and 15% fair.

SOIL MOISTURE was reported as 38% short, 57% adequate and 5% surplus on August 6. Additional rainfall since Friday has improved the soil moisture situation.

There were **6.00 DAYS SUITABLE FOR FIELDWORK** for the week ending August 6.

WEATHER

TEMPERATURES for the period of August 2 thru 8 averaged 3 to 6 degrees above the normal. The warmest temperatures were recorded during the first half of the period when the mercury climbed into the middle and upper 90's.

PRECIPITATION was well spread across the State during this period. Showers and thunderstorms left ½ to 4½ inches of rain with most locations reporting amounts of 1½ to 2½ inches. The smallest weekly totals were noted in the far South, while the largest amounts were in the extreme Northeast late in the week.

The **OUTLOOK** for the period of August 10 thru 16 is for **temperatures** to be near normal and **precipitation** to be below normal.

SOIL MOISTURE MEASUREMENTS

The **Illinois State Water Survey** reports that soil moisture in a moderately well-drained Flanagan soil near Bondville (Champaign County) decreased during the week prior to August 2. No measurable rain occurred at the location from July 27 to August 2. Consequently, the soil moisture loss was the most active of any week this summer. Between the surface and 4-inch depth, the moisture decreased from 30% of Potential Plant Available Moisture (PPAM) to 25%. Between 4 and 12 inches the PPAM decreased from 21% to 9% and from the 12 to 20-inch depth, the PPAM decreased from 48% to 40%. Soil moisture from the surface to about 7 feet decreased from 65% of PPAM to 62%.

Soil moisture was measured at the following locations in Illinois on July 27-30:

Site	County	Inches of Soil Moisture	
		Soil Moisture surface to 20"	Change from mid-July
Freeport	Stephenson	4.78	No change
Shabbona	De Kalb	6.35	+0.1
Mommouth	Warren	5.77	-0.1
Appleton	Knox	5.26	+0.3
Perry	Pike	5.03	-0.2
Topeka	Mason	2.67	-0.1
Bondville	Champaign	4.22	-1.2
Springfield	Sangamon	5.00	*
Brownstown	Fayette	5.36	-0.7
Belleville	St. Clair	4.87	-0.4
Olney	Richland	3.50	*
Dixon Springs	Pope	4.59	-0.6

* New site.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % dented (as of August 8)	25	20	30	25	20	20	20	35	35	24	20
Soybeans: % bloomed (as of August 8)	83	88	90	94	99	83	88	78	88	89	88
Alfa: % 3rd crop cut of August 8)	5	10	10	15	15	20	45	55	40	17	28
Days suitable for fieldwork:(week ending Aug.6)	4.0	4.5	6.5	5.5	5.0	7.0	6.5	6.5	7.0	6.00	
Soil moisture %:											
(as of Aug. 6) Short	-	-	30	30	25	45	45	60	80	38	
Adequate	100	35	70	70	65	55	55	40	20	57	
Surplus	-	65	-	-	10	-	-	-	-	5	

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MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	May	June	June 29- July 5	July 6- 12	July 13- 19	July 20- 26	July 27- Aug. 2	August 3- 9
Chicago	+6	-6	-3	+3	+7	+3	+3	+4
Peoria	+7	-4	0	+2	+4	+2	0	+5
Springfield	+7	-5	0	+2	+4	+1	-1	+6
St. Louis	+6	-4	0	+2	+2	+2	0	+6

Station	Week ending Monday, 6 A.M., August 9									
	Temperatures					Growing degree days 1/				
	Maxi-	Mini-	Aver-	Current	3-yr.	Totals	Totals			
	mum	mum	age	year	av. 2/	1981	1982			
Moline	96	58	78.1	187	2198	2187	2218			
Rockford	94	59	76.0	175	1984	2012	2057			
Chl. O'Hare	95	58	75.9	175	2010	2044	1958			
Quincy	95	60	79.5	197	2392	2307	2188			
Decatur	96	62	80.2	198	2295	2287	2211			
Peoria	94	59	79.0	192	2234	2349	2284			
Watseka	91	59	77.4	185	3/	2077	2036			
Springfield	98	60	81.4	199	2421	2510	2405			
Brownstown	95	58	80.3	195	3/	2563	2327			
St. Louis	98	63	83.7	213	2684	2725	2611			
Dixon Springs	96	63	79.4	187	3/	2765	2600			

1/ Totals are accumulated from April 1. 2/ Average of accumulated totals for 1979, 1980, and 1981. 3/ Previous years' data are not available.

Growing degree days (GDD's) are calculated by subtracting a 50-degree (F) base temperature from the average of the maximum and minimum temperatures for the day. The daily maximum temperature is limited to 86 degrees (F) and daily minimum to 50 degrees (F). Thus, if the mean temperature for the day is 75 degrees, then 25 GDD's will have been accumulated.

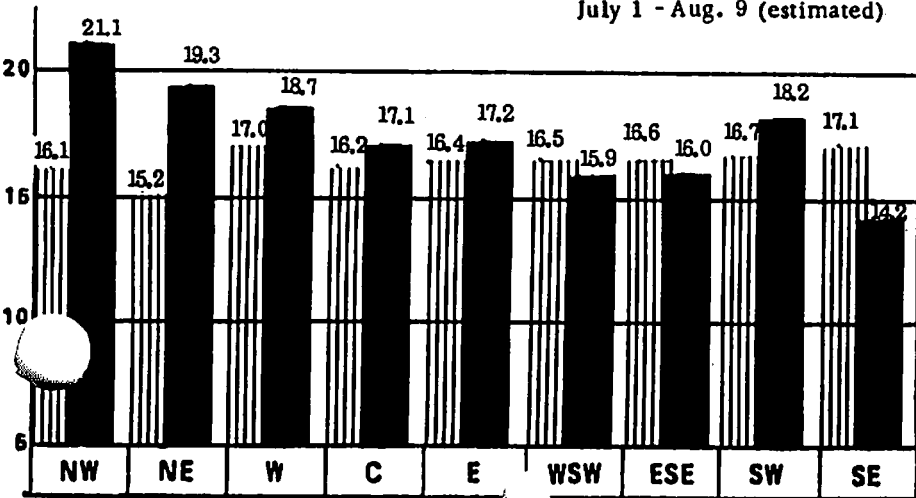
ACCUMULATED PRECIPITATION (Inches)

LEGEND: Normal | Actual

April 1-July 31

April 1-Aug. 9

April 1-June 30 (reported
by National Weather Service)
July 1 - Aug. 9 (estimated)



PRECIPITATION:
First figure--Current week, August 3-9
Parentheses--Previous week
M--Missing. T--Trace.

